



MATERIAL SAFETY DATA SHEET

1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the substance or preparation

Product name: SIZE

Use of the substance/preparation

Recommended use(s): Gilding operations and gold leaf applications

Distributor

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2) COMPOSITION /INFORMATION ON INGREDIENTS

Chemical family: Cross-linking Vinyl Acrylic Copolymer

	CAS NUMBER	CONCENTRATION (%)
Vinyl Acetate	108-05-04	0,1 - 1

3) HAZARD IDENTIFICATION

Specific hazard(s): Not considered as hazardous.



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4) FIRST-AID MEASURES

- Eye:** Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.
- Skin contact:** Flush with large amounts of water; use soap if available.
- Inhalation:** Remove to fresh air. Get medical attention if irritation persists.
- Ingestion:** If swallowed, induce vomiting only if victim is alert. Get prompt medical attention. Do not attempt to give anything by mouth to a drowsy or unconscious person.

5) FIRE FIGHTING MEASURES

- Flash point:** > 100 °C
- Extinguishing media:** CO₂, Dry Chemical, Foam, Water fog
- Special fire fighting procedures:** Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes
- Fire explosion hazards:** This is a water base product and presents no particular fire or explosion hazard. Product contains low level of inorganic volatiles which may be emitted at elevated temperatures. Dry polymer film will burn.
- Flammability hazard class:** 0 insignificant

6) ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Use the means of protection mentioned in paragraph 8
- Environmental precautions:** Do not allow to enter drains/surface waters/groundwater
- Method for cleaning up / taking up:** Absorb spillages onto sand, earth or any suitable absorbent material. Sweep up and shovel into waste drums. Wash the spillage area with water. Washing must be prevented from entering surface with water drains.

For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.



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7) HANDLING AND STORAGE

Storage temperature :	5 – 35 °C;
Handling/storage:	Product contains low level of organic volatiles which could accumulate in the unvented headspace of drums or bulk storage vessels. Open drums in well ventilated area. Avoid breathing vapours.
Ventilation requirements:	Local
Other precautions:	Avoid extreme temperatures. Protect from freezing.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	EXPOSURE LIMIT
Vinyl Acetate	ACGIH-TWA : 10 ppm ACGIH-STEL : 15 ppm OSHA-PEL : 10 ppm OSHA-STEL : 20ppm
Ventilation requirements:	Local
Eye protection requirements:	Wear safety glasses with side shields. Protect against splashes
Glove requirements:	The use of chemically resistant gloves is recommended.
Clothing requirements:	Uniform, coveralls or a lab coat should be worn. Rubber boots and apron if exposure is severe.
Change/removal of clothing:	Soiled clothing should be laundered before re-use.
Wash requirements:	Wash before eating, drinking or using toilet facilities . Use soap and water
Respirator requirements:	None required under normal handling conditions. Use NIOSH approved respirator if vapour or mist levels are irritating.



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9) PHYSICAL AND CHEMICAL PROPERTIES

Pure substance or Mixture:	Mixture
Physical form:	Liquid
Colour:	White
Odour:	Sweet odour
PH:	3 - 5
Boiling point:	100 °C
Melting/freezing point:	0 °C
Solubility in water:	Miscible
Specific gravity (water=1):	1.080
Evaporation rate:	- (Water)
Vapor pressure (mmHg):	17 (20C)
Vapor density (air=1):	0.62
Viscosity:	150 cps
Volatiles:	55% (water)
Volatile organic compounds:	<5 g/l
Auto ignition:	N/A
Flash point:	>104 °C
Oxidizing properties:	Not applicable

10) STABILITY AND REACTIVITY

Stability:	Stable.
Materials to avoid:	Substance which react with water.
Hazardous decomposition products:	Stable under normal temperature and pressure. Product contains low level of organic volatiles which may be emitted or released in application processes involving the use of heat. Vent all ovens and process vessels to the outside atmosphere.



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11) TOXICOLOGICAL INFORMATION

Route of entry: Inhalation, skin contact, eye contact, ingestion

Chronic (long term) effects of exposure

Effects of chronic exposure: Product contains residual vinyl acetate, an IARC 2B possible human carcinogen. Vinyl Acetate vapours have been shown to cause tumors in the respiratory tract of laboratory animals exposed to 600 ppm over a lifetime; 200 ppm causes irritation; 50 ppm produces no observable effect. There is no evidence of adverse effects to human exposed to levels or below the ACGIH TLV

Target organs: Not applicable

Carcinogen: No

Product toxicology

Product information: Unlikely to cause harmful effects under normal conditions of handling and use

Oral toxicology

Vinyl Acetate Oral LD50: rat 2,9 g/kg Low oral toxicity
Oral LD50: mouse 1,6 g/kg

Dermal toxicity

Dermal LD50: rabbit 2,4 g/kg Severely irritating; may cause permanent skin damage. Repeated and / or prolonged contact may cause skin cancer and skin sensitisation. Can be absorbed through skin.

Inhalation toxicity

Vinyl Acetate May cause irritation to eyes and respiratory system

Notes on Eye irritation

Vinyl Acetate Will cause irritation. May cause permanent damage if eyes is not immediately irrigated.

12) ECOLOGICAL INFORMATION

Potential to bioaccumulate: Unknown

Aquatic toxicity: None established



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13) DISPOSAL CONSIDERATION

Disposal/Waste (product): Disposal should be in accordance with local state or national regulation.

Empty containers warnings: Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied.

14) TRANSPORT INFORMATION

Dot Classification: Not applicable

15) REGULATORY INFORMATION

**USA
TSCA**

All components are on the TSCA inventory

SARA/TITLE III

CAS Number
108-05-04

CONCENTRATION(%)
0,95

CALIFORNIA PROPOSITION 65

This product contains Acetaldehyde CAS# 75-07-0 and Formaldehyde CAS# 50-00-0.

16) OTHER INFORMATION

Further information:

Date of issue: 168/04/2009

replaces: -----

All information of this sheet are based on the actual knowledge. It does not represent a guarantee of the properties of the product and does not give reason for a legal-contractual business relation.